

DESIGN & TEST ENGINEER

Requirements & Skills

This important company position requires a strong, working engineer's knowledge of strain gage transducers, its technology and fabrication, and an understanding of fundamental transducer designs, materials selection, machining capability, and applied force-measurement techniques and tooling.

Your ability to understand strain gage transducers – in design, development, and production – is key to succeeding in this role. You must be hands-on in the formulation, development, and application of various test methods and procedures for both force and torque products.

A good understanding of instrumentation and measurement techniques for transducers is required in both theory and practice, while having an advanced knowledge of calibration methodologies and test practices.

This position requires excellent communication skills for interaction with sales, engineering, manufacturing, and customers. In this position you should become a mentor and role model for the design, development, and improvement of products and test procedures.

Primary Duties and Responsibilities

- Design, develop, and test existing and new products (load cells, torque transducers).
- Complete 3D designs, analysis, and test procedures for improving existing products and/or creating and developing new products.
- Provide technical guidance to other engineers in product design, materials selection, component stress analysis (FEA), electronic concepts/circuitry/test, calibration, and signal conditioning.
- Key resource for the evaluation of new opportunities. Evaluates both financial and technical feasibility. Determines cost and non-recurring engineering charges for new products.
- Serve as Technical Resource for manufacturing processes (welding, assembly, calibration) and the design and development of new test & calibration systems.
- Work with the machine shop and production engineers to manage products through the fabrication process – ensuring products meet overall customer specification, application, and promise.
- Take responsibility assisting in managing product-based projects to meet engineering and production schedules and customer needs.
- Participant in company planning and strategy sessions for new product and technology developments.
- Develop qualification plans and direct qualification testing of new products and processes.

Qualifications

- BS or MS degree in mechanical, aerospace, or electrical engineering.
- 10 years hands-on design engineering work with focus on product development and improvements.
- Experienced and knowledgeable in 3D designs using Solidworks, ProE, or similar software. Knowledge of FEA software a plus.
- In-depth understanding of engineering mechanics, materials, strain gages, and associated electronics and systems.
- An overall knowledge of electrical test techniques and/or NI's LabView would be helpful.
- Solid background and experience in MS Office and working knowledge of MS Project and/or OneNote
- Interpersonal skills to establish and maintain effective working relationships with customers, vendors, and internal resources.

Resumes should be submitted with cover letter to: HR@toveyengineering.com